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NDIA Security Symposium: The Challenge of Understanding and Managing Public Response to Terrorism

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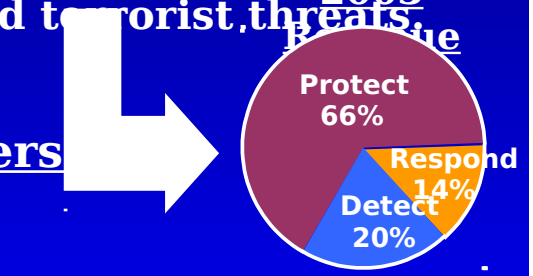
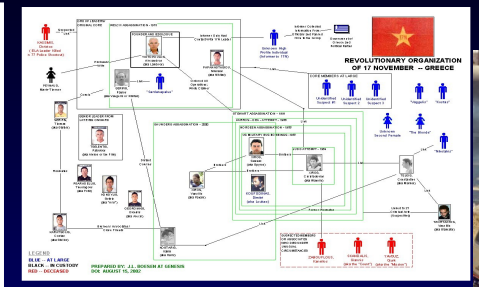
Homeland Security

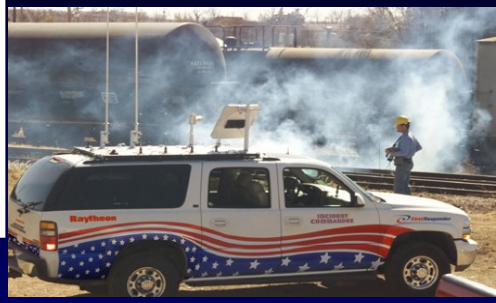
- **What Is It?**
  Homeland Security is a concerted national effort to prevent terrorist attacks within the United States, reduce America's vulnerability to terrorism, and minimize the damage and recover from final attacks that do occur.
  National HS Strategy, Jul '02

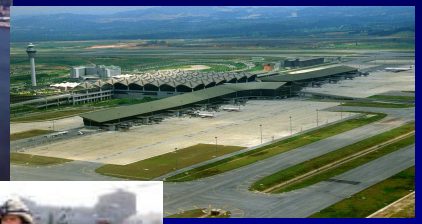
- **Business Definition**
  A "One Company" business with primary focus on assessing, combating and responding to terrorism and terrorist threats

- **Headquarters**
  Wash., DC









- **Homeland Security Business Areas**
  - **Information Analysis/Infrastructure Protection (Detect)**
  - **Border/Transportation Security (Protect)**
  - **Emergency Response (Respond)**

Detect, Protect and Respond

Raytheon Offerings

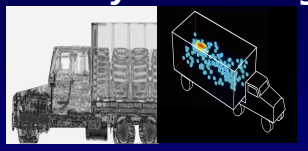
Emergency Response

Border and Transportation Security

Area

Situation Awareness, Integration and Control

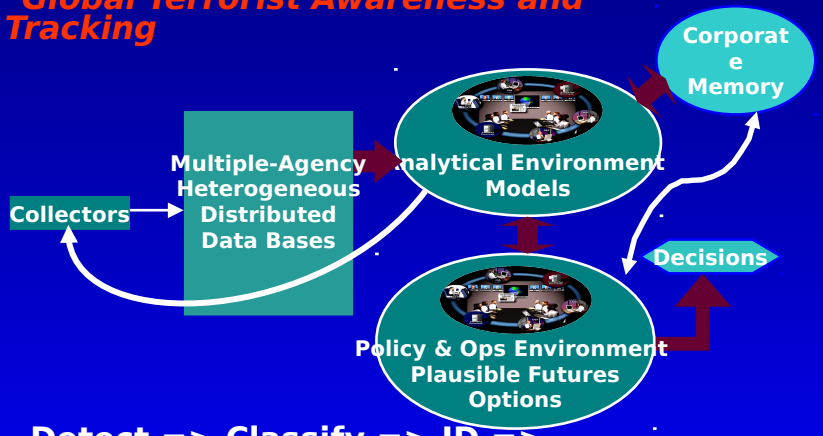
Vehicle , Cargo Security Screening



Employee and Passenger

Information Analysis

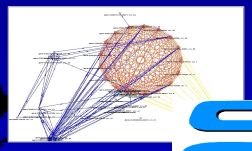
Global Terrorist Awareness and Tracking



Detect => Classify => ID => Track

Network, Cyber Security

Secure Wide Area Network (SWAN)



Navy Marine Corps Intranet (NMCI)

Raytheon Well Positioned to Exploit HLS Market

Core Competencies/Technologies

- Data mining/warehousing/analysis/correlation tools ⇒ Genesis
- Communications products and technology ⇒ First Responder Vehicle
- Command and Control ⇒ Port of Houston
- Network security expertise ⇒ SilentRunner
- Intelligence tools personalized for HS use ⇒ ID/Biometric System
- Cost-effective system installation/support expertise ⇒ Airport Explosive Detection Systems
- Systems integration experience ⇒ Security Ops. Center

H.S. Demands Different Application of Existing Technologies

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Customer's Desire/Raytheon Response

Customer's Desire

"I am tired of being approached by product vendors with their neat toys. Don't bring me products ... I am not a systems integrator. I need a total solution to my problem; I need a secure airport"

Airport Director

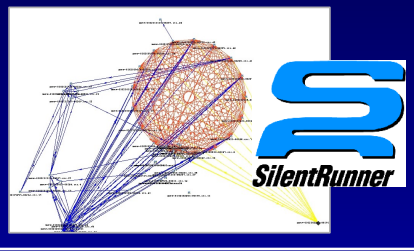
Raytheon's Response

- **Form a H.S. business that brings all the technologies and products of Raytheon together to provide customer-focused solutions**
  - ⇒ **Behave as "One Company"**
- **Select best products available for customer-focused solution**
  - ⇒ **Inside or outside of Raytheon**
- **Leverage products/expertise from DoD business base**

Key Programs

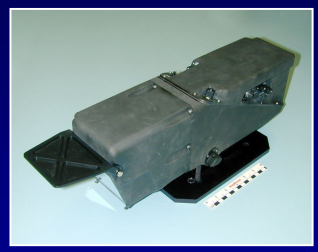
Information Analysis & Infrastructure Protection

- **Total Information Awareness (DARPA)**
- **Geospatial Intelligence Database Integration (NIMA)**
- **Genesis**
- **SilentRunner**



Counter Terrorism/ Special Operations

- **EO/IR Sensors**
- **RedWolf**
- **SilentRunner**



Border and Transportation Security

- **Entry-Exit System (VNS)**
- **IBDSS/Force Protection**
- **Port Security**
- **Commercial A/C Self-Protection**

Emergency Preparedness and Response

- **First Responder Vehicle (Fire Depts, FEMA)**
- **Security Operations Center (PH)**
- **Emergency Patient Tracking System (EPTS)**
- **Civil Emergency Response and React**
- **Tra stem**

Emergency Services

- **Public Safety Command and Communications**
- **Regional Command and Control**
- **Civil Emergency Training**
- **Emergency Patient Tracking System**

Civil Emergency Training

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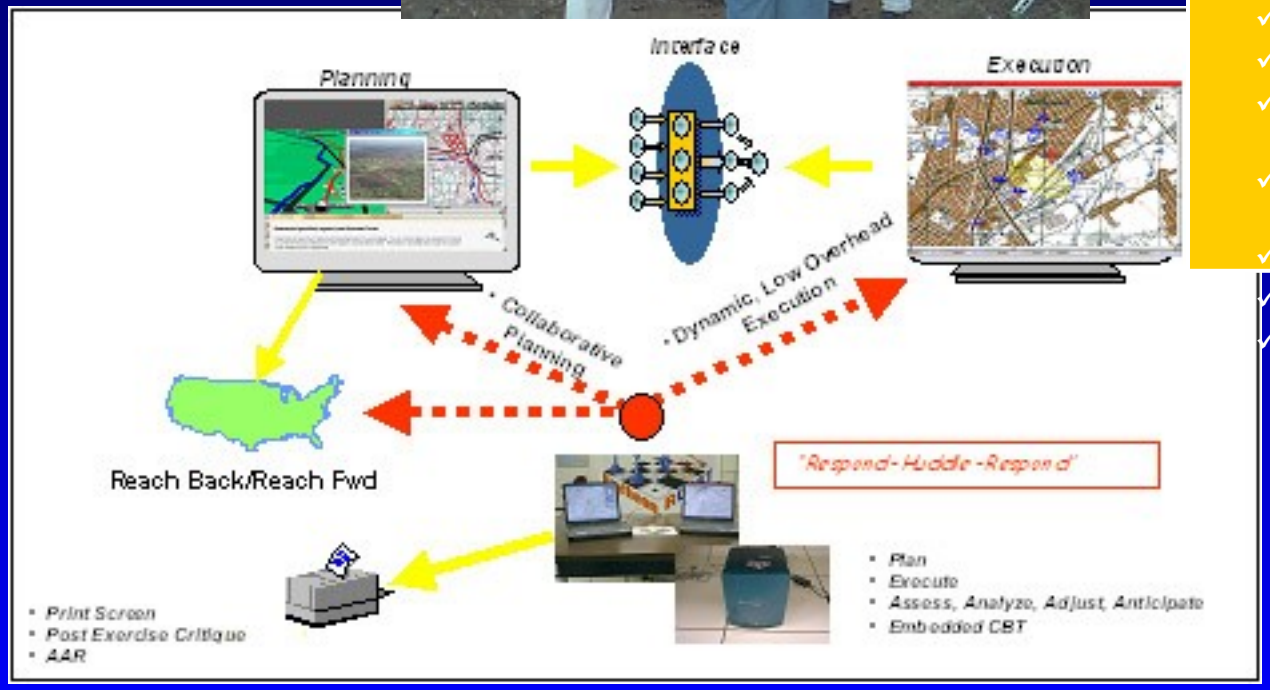
Emergency Support Team



- **CERRTS Supports the Following FEMA ESF's:**

- ✓ **ESF 1: Transportation**
- ✓ **ESF 2: Communications**
- ✓ **ESF 3: Public Work & Engineering**
- ✓ **ESF 4: Fire Fighting**
- ✓ **ESF 5: Information & Planning**
- ✓ **ESF 6: Mass Care**
- ✓ **ESF 7: Resource**
- ✓ **ESF 8: Health & Medical Services**
- ✓ **ESF 9: Urban Search & Rescue**
- ✓ **ESF 10: Hazardous Materials**
- ✓ **ESF 11: Food**
- ✓ **ESF 12: Energy Restoration – Fuel**

Civil Emergency Response and Reaction Training System (CERRTS)

Supplier Only

Incident Command
Communications Interoperability

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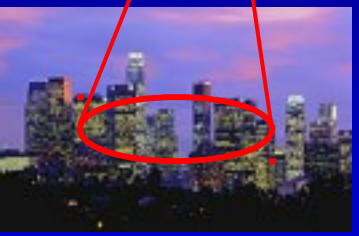
- **Streamlined command and control**
- **Built on existing communications infrastructure**
  - **Links incompatible radio systems**
  - **Integrates satellite, radio, sensor and video information systems**
  - **On-scene info. for Ops Centers, Mayors …**
  - **Press Mgmt**



Solves Communications Interoperability

Security Operations Center: Situation Awareness and Control

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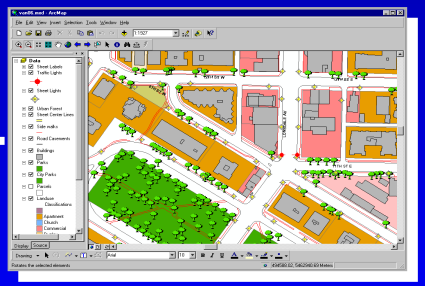
perational and Environmental Information

Mapping | Weather | Security | Operations

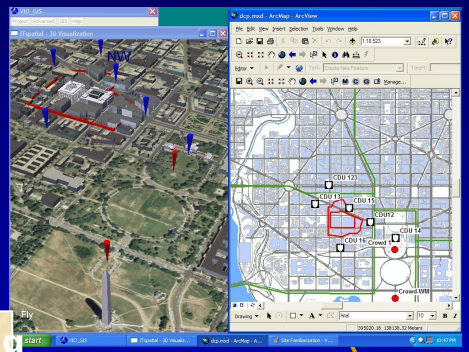
Facility | Emergency Services | Perimeter | Info Sharing

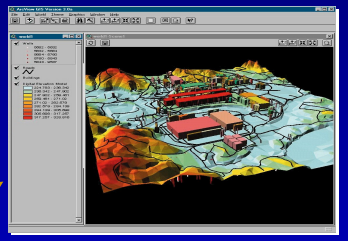


Exploded Facilities View and Status, Terrain, and Spatial Information

Mobile

Integration Situation Awareness, and

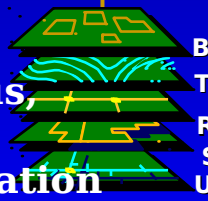


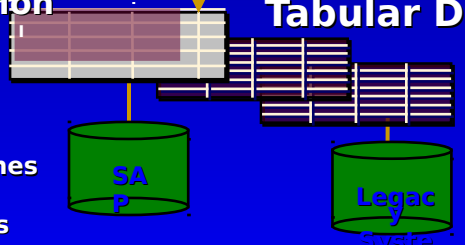


Desktop

Spatial Integration

Tabular Data





Spatial Information

Integration for Decision Making

- **Intelligence**
- **Surveillance**
- **Access Mgmt.**
- **Data**
- **Scene Awareness**
- **Collaboration**

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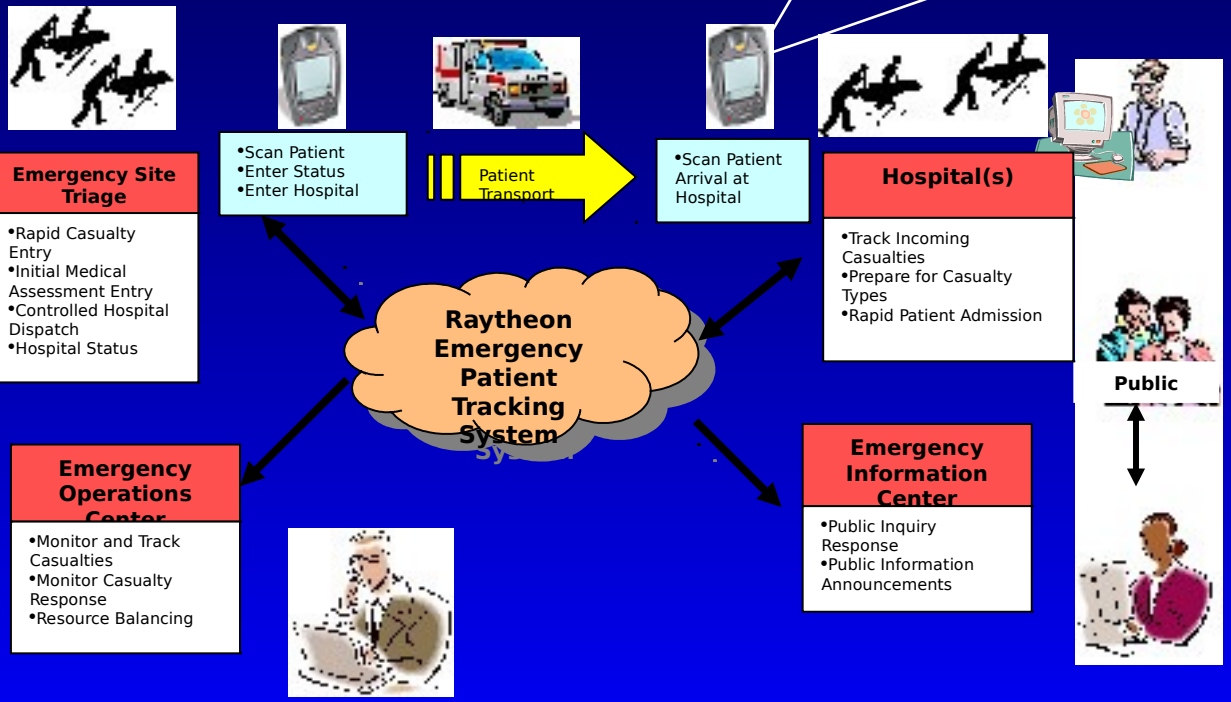
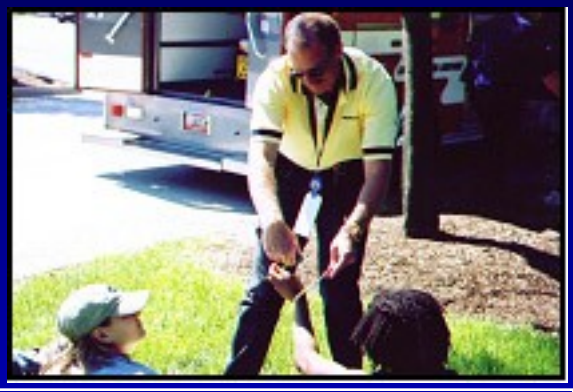
Emergency Patient Tracking System

- **Innovative concept of tracking patients in a Mass Casualty Incident with bar-coded triage tags**
- **Uses wireless communications with PDAs and web pages to disseminate casualty status**

PDA-
Patient Information Screen





"It was dramatically better than previous exercises when it took an hour to get it by radio and 2 or 3 days before we got reports back from all the hospitals on where everybody went and what condition they arrived. Hundreds of times faster than the old system."

-Mark Thorp,
Chief of Clayton, Missouri, Fire Department

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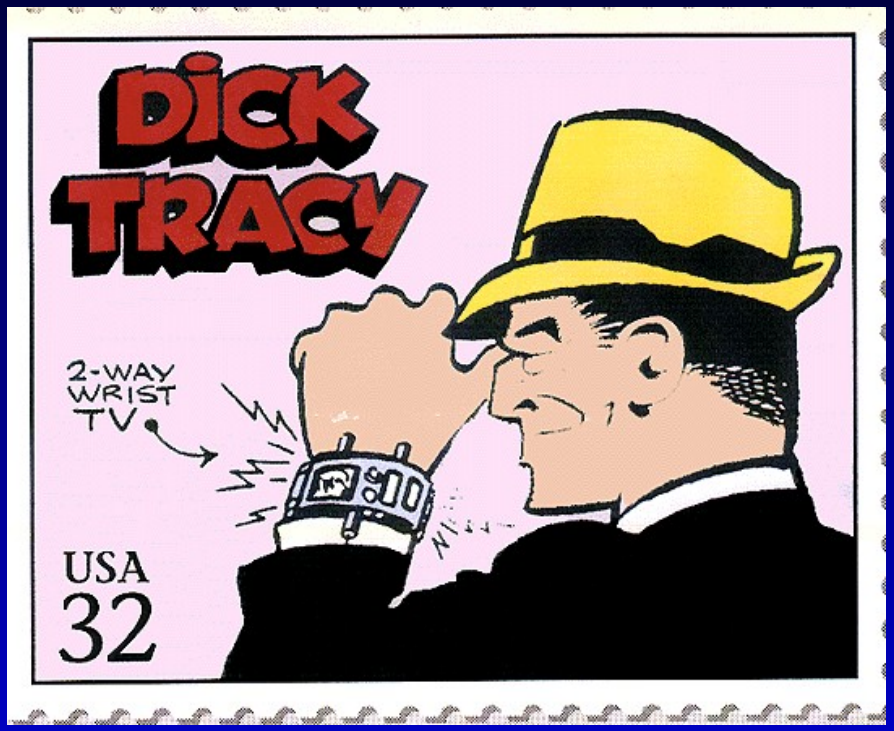
Thank You



- Technology can help
- People make it work